

(b) locating the catheter and stent within a passageway;  
and

B1  
(c) inelastically expanding the stent, while maintaining the longitudinal length of the stent, by inflating the balloon catheter within the stent [so that adjacent cusps are circumferentially displaced relative to each other] until the stent engages the passageway.

Please add the following as new claims 29-34:

~~Sub C1~~ 29. An apparatus for intraluminally reinforcing the lumen of a body passageway, comprising:

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a tubular shaped stent having a first diameter which permits delivery of the tubular shaped stent into the lumen of the body passageway;

at least a portion of said tubular shaped stent having a second, expanded diameter, said portion being formable to said second diameter, without any change in length of said tubular shaped stent, upon application from the interior of said tubular shaped stent of an outwardly extending force, to expand said lumen and to retain said portion of said tubular shaped stent with said second, expanded diameter within said body passageway.

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30. A method for expanding the lumen of a body passageway comprising the steps of:

p1 (a) inserting an endovascular stent, having a longitudinal length, disposed upon a catheter into the body passageway until it is disposed adjacent the lumen; and

p1 (b) expanding a portion of the catheter to expand the endovascular stent outwardly into contact with the body passageway, by inelastically deforming a portion of the endovascular stent, while maintaining the longitudinal length of the stent, until the lumen has been expanded,

p1 whereby the endovascular stent prevents the body passageway from collapsing and the endovascular stent remains in the body passageway.

Sub C 2 31. An endovascular implant, comprising:

NP a tubular shaped stent having a first diameter which permits intraluminal delivery of the tubular shaped stent into a body passageway having a lumen; and

NH said tubular shaped stent having a second, expanded diameter, upon the application from the interior of said tubular shaped stent of an outwardly extending force, which second diameter is variable and controlled by the amount of force applied to said tubular shaped stent, at least a portion of said tubular shaped stent being deformed by the outwardly extending force to retain said tubular shaped stent with the

second, expanded diameter, whereby said tubular shaped stent may be expanded to expand the lumen of the body passageway and remain therein.

32. An apparatus for intraluminally reinforcing a body passageway, comprising:

an expandable intraluminal stent; and

a catheter having an expandable, inflatable portion associated therewith and including means for mounting said expandable intraluminal stent on said expandable, inflatable portion,

whereby upon inflation of said expandable, inflatable portion of said catheter, said stent is forced outwardly into contact with the body passageway to remain therein, and the expansion of said stent is controlled by the expansion of said inflatable portion of said catheter.

33. A method for implanting a stent within a body passageway comprising the steps of:

(a) disposing the stent upon a catheter;

(b) inserting the stent and catheter within the body passageway by catheterization of said body passageway; and

(c) providing controllable expansion of the stent at a desired location within the body passageway by expanding a portion of the catheter associated with the stent to force the stent outwardly into contact with the body passageway, by